

For:

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Becerra, et al.

Art Unit: 2837

Serial No.: 09/681,221

Examiner: Marlon T. Fletcher

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DIGITAL COMMUNICATION

LINK

SUBMISSION OF MARKED UP PARAGRAPHS AND CLAIMS

Box NON-FEE AMENDMENT Hon. Commissioner for Patents Washington, D.C. 20231

Submitted herewith are marked up Paragraphs and Claims in accordance with 37 C.F.R. 1.121(b)(1)(ii) and 1.121(c)(1)(ii).

IN THE CLAIMS

Please cancel Claims 3, 45 and 61.

1. (once amended) A method for interfacing an electric motor to a controller using an electrical interface circuit, the interface circuit including a controller circuit and a motor control circuit, the controller circuit including a transmitter circuit and a receiver circuit, the motor control circuit including a transmitter circuit and a receiver circuit, and the interface circuit electrically coupled to the controller and the electric motor, said method comprising the steps of:

receiving a signal from the controller;

adjusting a level of the received signal to a desired level;

converting the signal from the controller to at least one of an infrared signal and an RF signal;

outputting the signal to control the electric motor;

receiving a signal from the electric motor; and

transmitting the received signal from the electric motor to the controller.

- 31. (once amended) An electrical interface circuit comprising a controller circuit electrically coupled to a motor control circuit, said controller circuit comprising a transmitter circuit and a receiver circuit, said motor control circuit comprising a transmitter circuit and a receiver circuit, said interface circuit electrically connected to a controller and electrically connected to an electric motor, said controller circuit configured to convert a voltage signal to at least one of an infrared signal and an RF signal.
- [including] comprising an electronically commutated motor, said electrical interface comprising a controller circuit electrically connected to a motor control circuit using a serial four-wire communications cable, said controller circuit comprising a transmitter circuit and a receiver circuit, said controller circuit configured to convert a voltage signal to at least one of an infrared signal and an RF signal, said motor control circuit comprising a transmitter circuit including a first optocoupler and a receiver circuit including a second optocoupler, said interface circuit electrically connected to a controller and electrically connected to said electronically commutated motor, wherein said first and second optocouplers configured to isolate signals between said motor control circuit and said electronically commutated motor and said electrical interface configured to interrogate said electronically commutated motor to acquire status and diagnostic information.
- [including] comprising an electronically commutated motor, said electrical interface comprising a controller circuit electrically connected to a motor control circuit using a digital wireless interface, said controller circuit comprising a transmitter circuit and a receiver circuit, said controller circuit configured to convert a voltage signal to at least one of an infrared signal and an RF signal, said motor control circuit comprising a transmitter circuit including a first optocoupler and a receiver circuit including a second optocoupler, said interface circuit electrically connected to a controller and electrically connected to said

electronically commutated motor, wherein said first and second optocouplers configured to isolate signals between said motor control circuit and said electronically commutated motor and said electrical interface configured to interrogate said electronically commutated motor to acquire status and diagnostic information.

Respectfully submitted,

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